

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start		Rating **	A	Issue No.	19
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0001_01_s_2016_19				
Comment Code					
Inspector Comment					
The LMA has emergency supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	28
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0001_01_s_2013_28				
Comment Code					
Inspector Comment					
The LMA has O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	29
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0001_01_s_2013_29				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2016.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	0.00	Rating **	U	Issue No.	22
LM End	16.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.213945 °	39.410748 °
				-122.000856 °	-122.009702 °
DWR ID	DWR_MA0001_01_s _ 2012_22				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.01	Rating **	N	Issue No.	92
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.214000 °	39.214000 °
				-122.001077 °	-122.001077 °
DWR ID	DWR_MA0001_01_f _ 2016_92				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.06	Rating **	M	Issue No.	67
LM End	0.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.214091 °	39.214091 °
				-122.001899 °	-122.001899 °
DWR ID	DWR_MA0001_01_s _ 2019_67				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The wild growth should be removed from the landside toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	<b>0.07</b>	Rating **	C	Issue No.	<b>93</b>
LM End	<b>0.07</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.214162 °	39.214162 °	
			-122.002158 °	-122.002158 °	
DWR ID	DWR_MA0001_01_f_2016_93				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	<b>0.09</b>	Rating **	A/W	Issue No.	<b>94</b>
LM End	<b>0.09</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.214217 °	39.214217 °	
			-122.002378 °	-122.002378 °	
DWR ID	DWR_MA0001_01_f_2016_94				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_94\_20190327\_00028.jpg



View of the slope instability along the landside slope.

LM Start	<b>0.22</b>	Rating **	M	Issue No.	<b>75</b>
LM End	<b>0.22</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.215077 °	39.215077 °	
			-122.004546 °	-122.004546 °	
DWR ID	DWR_MA0001_01_s_2019_75				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	0.25	Rating **	N	Issue No.	97
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.215343 °	39.215343 °
				-122.005100 °	-122.005100 °
DWR ID	DWR_MA0001_01_f_2016_97				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.38	Rating **	A/W	Issue No.	98
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.215878 °	39.215878 °
				-122.007278 °	-122.007278 °
DWR ID	DWR_MA0001_01_f_2016_98				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_98\_20190327\_00029.jpg



View of the slope instability along the waterside slope.

LM Start	0.53	Rating **	N	Issue No.	101
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.215808 °	39.215808 °
				-122.009995 °	-122.009995 °
DWR ID	DWR_MA0001_01_f_2017_101				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	0.68	Rating **	N	Issue No.	76
LM End	0.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.216562 °	39.216562 °
				-122.012563 °	-122.012563 °
DWR ID	DWR_MA0001_01_s _ 2019_76				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.78	Rating **	M	Issue No.	77
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.217371 °	39.217371 °
				-122.014166 °	-122.014166 °
DWR ID	DWR_MA0001_01_s _ 2019_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.87	Rating **	M	Issue No.	79
LM End	0.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.217717 °	39.217717 °
				-122.015717 °	-122.015717 °
DWR ID	DWR_MA0001_01_s _ 2019_79				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_79\_20190418\_00150.jpg



View of the tree branches and limbs at the landside toe. Spring 2019.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



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**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	1.87	Rating **	M	Issue No.	68
LM End	1.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.231195°	39.231195°
				-122.015460°	-122.015460°
DWR ID	DWR_MA0001_01_f_2018_68				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

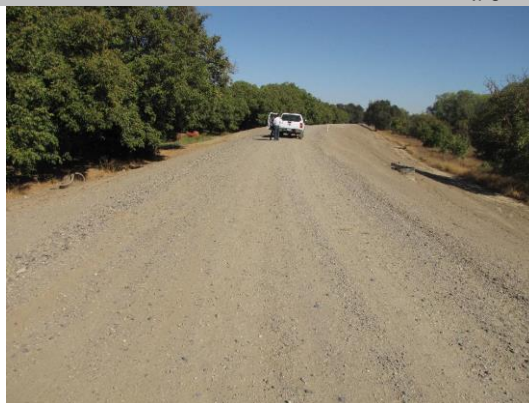
Photo 1 of 1 : SP\_2019\_MA0001\_297\_68\_20190327\_00015.jpg



View of the rodent holes along the landside slope.

LM Start	1.92	Rating **	M	Issue No.	640	
LM End	1.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.231866 °		39.231866 °
				-122.015442 °		-122.015442 °
DWR ID	16430					
Comment Code						
Inspector Comment						
FS_ID:51852 DS_ID:16430 EP_NO: 9487 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 WS end still partially plugged. (DWR Sutter Yard- A Freitag)10/24/2016 Ws end is till partially plugged.(DWR Sutter Yard- A Freitag)4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition.4/20/2015 WS pipe end is plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment.10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt. FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. Pipe daylights on the landside (LS). (36-inch pipe [HLM 1.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)]. FS Date: 5/19/2017 1:20:29 PM						

Photo 1 of 3 : UCIP\_SP\_2019\_51852\_70064.jpg



Overview of levee crown and slopes looking upstream towards crossing.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	1.92	Rating **	M	Issue No.	640 (cont)
LM End	1.92	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.231866 °	39.231866 °	
			-122.015442 °	-122.015442 °	
DWR ID	16430				

**Comment Code**

**Inspector Comment**

FS\_ID:51852  
DS\_ID:16430  
EP\_NO: 9487  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/3/2017 WS end still partially plugged. (DWR Sutter Yard- A Freitag)10/24/2016 WS end is still partially plugged.(DWR Sutter Yard- A Freitag)4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition.4/20/2015 WS pipe end is plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment.10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0116 for crossing outlet deformed and clogged with dirt.  
FIELD\_STRUCT\_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. Pipe daylights on the landside (LS). (36-inch pipe [HLM 1.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].  
FS Date: 5/19/2017 1:20:29 PM

LM Start	1.92	Rating **	M	Issue No.	640 (cont)
LM End	1.92	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2019\_51852\_70063.jpg



View of WS looking upstream at CMP riser on slope.

Photo 3 of 3 : UCIP\_SP\_2019\_51852\_70062.jpg



View of LS looking upstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	1.92	Rating **	M	Issue No.	641
LM End	1.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.231880 °	39.231880 °
				-122.015432 °	-122.015432 °
DWR ID	17565				

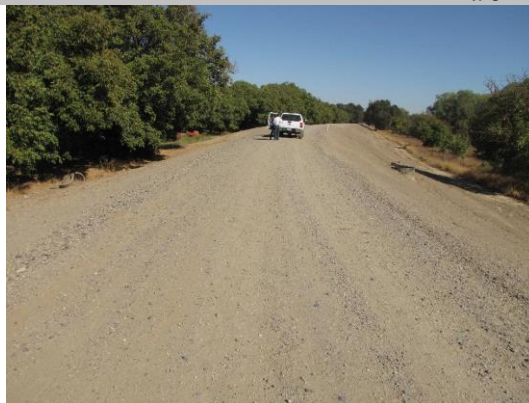
**Comment Code**

**Inspector Comment**

FS\_ID:51853  
DS\_ID:17565  
EP\_NO: 9487  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/3/2017 Ws end still partially plugged. (DWR Sutter Yard- A Freitag)10/24/2016 Ws pipe end still plugged.(DWR Sutter Yard- A Freitag)4/25/2016 WS pipe end still plugged with soil. rest of pipe appears in good condition.4/20/2015 WS pipe end plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still partially blocked with dirt and debris.10/18/2012 WS-remove dirt and debris in riser. Outlet deformed and blocked over 50%. Burrow activity near outlet on waterward slope. Debris around concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE\_CESPK\_MA1C\_2010\_p\_0116 for crossing outlet deformed and clogged with dirt.  
FIELD\_STRUCT\_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe daylights on the landside (LS). (36-inch pipe [HLM 1.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].  
FS Date: 5/19/2017 1:21:31 PM

LM Start	<b>1.92</b>	Rating **	M	Issue No.	<b>641 (cont)</b>
LM End	<b>1.92</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2019\_51853\_70071.jpg



View of levee crown and slopes looking upstream at crossing.

Photo 2 of 3 : UCIP\_SP\_2019\_51853\_70074.jpg



View of CMP risers located on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	1.92	Rating **	M	Issue No.	641 (cont)	
LM End	1.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.231880 °	39.231880 °	
				-122.015432 °	-122.015432 °	
DWR ID	17565					
Comment Code						
Inspector Comment						
FS_ID:51853 DS_ID:17565 EP_NO: 9487 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Ws end still partially plugged. (DWR Sutter Yard- A Freitag)10/24/2016 Ws pipe end still plugged.(DWR Sutter Yard- A Freitag)4/25/2016 WS pipe end still plugged with soil. rest of pipe appears in good condition.4/20/2015 WS pipe end plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still partially blocked with dirt and debris.10/18/2012 WS-remove dirt and debris in riser. Outlet deformed and blocked over 50%. Burrow activity near outlet on waterward slope. Debris around concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt. FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe daylights on the landside (LS). (36-inch pipe [HLM 1.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)]. FS Date: 5/19/2017 1:21:31 PM						

Photo 3 of 3 : UCIP\_SP\_2019\_51853\_70073.jpg



CMP pipe outlet deformed with over 50 percent blockage.

LM Start	2.11	Rating **	M	Issue No.	83
LM End	2.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.234366 °	39.234366 °
				-122.014049 °	-122.014049 °
DWR ID	DWR_MA0001_01_s_2019_83				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_83\_20190418\_00151.jpg



View of the rodent holes on the landside slope. Spring 2019.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	2.23	Rating **	M	Issue No.	642
LM End	2.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.235993 °	39.235993 °
				-122.012970 °	-122.012970 °
DWR ID	16429				
Comment Code					
Inspector Comment					
FS_ID:51854 DS_ID:16429 EP_NO: 9472 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 LS inlet partially plugged with soil. Some debris still present inside riser. (DWR Sutter Yard-AFreitag)10/24/2016 Debris still inside of riser.(DWR Sutter Yard-AFreitag)4/25/2016 Pipe still inside of riser and LS end plugged about 50% by soil.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 Remove debris from riser. Landward inlet is blocked by over 50%. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0128 for sediment build up at inlet (landward side) and debris inside riser. FIELD_STRUCT_DESC: 54-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 48-inch CMP at landside (LS) slope. This crossing crosses the levee at an angle. (54-inch pipe [HLM 2.29] authorized under Automatic Board Order (ABO) issued as Permit No. 9472, 1974 - Ballard) ) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+00)]. FS Date: 5/19/2017 1:23:34 PM					

LM Start	<b>2.23</b>	Rating **	M	Issue No.	<b>642 (cont)</b>
LM End	<b>2.23</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2019\_51854\_70078.jpg



View of levee crown looking downstream at crossing. CMP riser located on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2019\_51854\_70079.jpg



View of WS looking at slope and channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	2.23	Rating **	M	Issue No.	642 (cont)	
LM End	2.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.235993 °	39.235993 °	
				-122.012970 °	-122.012970 °	
DWR ID	16429					
Comment Code						
Inspector Comment						
FS_ID:51854 DS_ID:16429 EP_NO: 9472 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 LS inlet partially plugged with soil. Some debris still present inside riser. (DWR Sutter Yard-AFreitag)10/24/2016 Debris still inside of riser.(DWR Sutter Yard-AFreitag)4/25/2016 Pipe still inside of riser and LS end plugged about 50% by soil.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 Remove debris from riser. Landward inlet is blocked by over 50%. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0128 for sediment build up at inlet (landward side) and debris inside riser. FIELD_STRUCT_DESC: 54-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 48-inch CMP at landside (LS) slope. This crossing crosses the levee at an angle. (54-inch pipe [HLM 2.29] authorized under Automatic Board Order (ABO) issued as Permit No. 9472, 1974 - Ballard) ) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+00)]. FS Date: 5/19/2017 1:23:34 PM						

Photo 3 of 3 : UCIP\_SP\_2019\_51854\_70077.jpg



View of outlet located at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	2.25	Rating **	M	Issue No.	643	
LM End	2.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.236178 °	39.236178 °	
				-122.012812 °	-122.012812 °	
DWR ID	16428					
Comment Code						
Inspector Comment						
FS_ID:51855 DS_ID:16428 EP_NO: 9467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abanoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing. Unable to locate any WS and LS pipe ends.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2012 Only riser visible. Debris and sediment blocking gate. Gate inside riser is buried and non-functional. If crossing is abandoned, owner needs to properly abandon. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0132 no culvert through the levee is visible here. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in CM pipe riser on the waterside (WS) slope. No signs of inlet visible on the landside (LS). (24-inch pipe [HLM 2.31] authorized under Automatic Board Order (ABO) issued as Permit No. 9467, 1974 - Lovell E. Spurgeon) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+60)]. FS Date: 5/19/2017 1:48:04 PM						

Photo 1 of 3 : UCIP\_SP\_2019\_51855\_70085.jpg



Overview of levee crown looking upstream at crossing.

LM Start	<b>2.25</b>	Rating **	M	Issue No.	<b>643 (cont)</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2019\_51855\_70084.jpg



View of WS slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	2.25	Rating **	M	Issue No.	643 (cont)	
LM End	2.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.236178 °	39.236178 °	
				-122.012812 °	-122.012812 °	
DWR ID	16428					
Comment Code						
Inspector Comment						
FS_ID:51855 DS_ID:16428 EP_NO: 9467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abanoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing. Unable to locate any WS and LS pipe ends.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2012 Only riser visible. Debris and sediment blocking gate. Gate inside riser is buried and non-functional. If crossing is abandoned, owner needs to properly abandon. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0132 no culvert through the levee is visible here. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in CM pipe riser on the waterside (WS) slope. No signs of inlet visible on the landside (LS). (24-inch pipe [HLM 2.31] authorized under Automatic Board Order (ABO) issued as Permit No. 9467, 1974 - Lovell E. Spurgeon) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+60)]. FS Date: 5/19/2017 1:48:04 PM						

Photo 3 of 3 : UCIP\_SP\_2019\_51855\_70083.jpg



Unable to locate WS outlet.

LM Start	2.37	Rating **	U	Issue No.	84
LM End	2.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.237692 °	39.237692 °
				-122.011827 °	-122.011827 °
DWR ID	DWR_MA0001_01_s_2019_84				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_84\_20190418\_00152.jpg



The tree branches and limbs should be removed from the waterside slope and toe. Spring 2019.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	2.61	Rating **	U	Issue No.	21	
LM End	15.73	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			39.240692 °		39.398921 °
				-122.009406 °		-122.010147 °
DWR ID	DWR_MA0001_01_s_2019_21					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						

No Photos

LM Start	2.93	Rating **	U	Issue No.	96
LM End	2.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.245068 °	39.245068 °
				-122.007831 °	-122.007831 °
DWR ID	DWR_MA0001_01_s_2019_96				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The tree branches and limbs should be removed from the waterside slope and toe.					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_96\_20190418\_00153.jpg



View of the tree branches on the waterside slope. Spring 2019.

LM Start	3.08	Rating **	M	Issue No.	100
LM End	3.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.247305 °	39.247305 °
				-122.008193 °	-122.008193 °
DWR ID	DWR_MA0001_01_s_2019_100				
Comment Code					
PR : Prunings					
Inspector Comment					
The prunings should be removed from the landside toe.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	3.33	Rating **	M	Issue No.	646
LM End	3.33	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.250843 °	39.250843 °	
			-122.007992 °	-122.007992 °	
DWR ID	16426				

**Comment Code**

**Inspector Comment**

FS\_ID:51859  
DS\_ID:16426  
EP\_NO: 9490  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/3/2017 Sediment build up in WS pipe end. WS slide gate stem bent but it does not affect its operation. (DWR Sutter Yard- A Freitag) 10/24/2016 WS slide gate stem is still bent. (DWR Sutter Yard- A Freitag) 4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned. 6/18/2014 Same as last inspection. 12/17/2013 Same as last inspection. 7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up. 10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0187 for sediment build up at landward toe.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (36-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)].  
FS Date: 5/19/2017 1:53:31 PM

Photo 1 of 3 : UCIP\_SP\_2019\_51859\_70110.jpg



View of LS looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	3.33	Rating **	M	Issue No.	646 (cont)	
LM End	3.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.250843 °	39.250843 °	
				-122.007992 °	-122.007992 °	
DWR ID	16426					
Comment Code						
Inspector Comment						
FS_ID:51859 DS_ID:16426 EP_NO: 9490 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Sediment build up in WS pipe end. WS slide gate stem bent but it does not affect its operation. (DWR Sutter Yard- A Freitag)10/24/2016 WS slide gate stem is still bent.(DWR Sutter Yard- A Freitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (36-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)]. FS Date: 5/19/2017 1:53:31 PM						

Photo 2 of 3 : UCIP\_SP\_2019\_51859\_70109.jpg



View of WS looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	3.33	Rating **	M	Issue No.	646 (cont)	
LM End	3.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.250843 °	39.250843 °	
				-122.007992 °	-122.007992 °	
DWR ID	16426					
Comment Code						
Inspector Comment						
FS_ID:51859 DS_ID:16426 EP_NO: 9490 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Sediment build up in WS pipe end. WS slide gate stem bent but it does not affect its operation. (DWR Sutter Yard- A Freitag)10/24/2016 WS slide gate stem is still bent.(DWR Sutter Yard- A Freitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (36-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)]. FS Date: 5/19/2017 1:53:31 PM						

Photo 3 of 3 : UCIP\_SP\_2019\_51859\_70111.jpg



View of WS slope, riser with slide gate, and outlet.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	<b>3.88</b>	Rating **	M	Issue No.	<b>50</b>
LM End	<b>3.88</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.257125°	39.257125°	
			-122.012648°	-122.012648°	
DWR ID	DWR_MA0001_01_f_2013_50				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	<b>3.88</b>	Rating **	M	Issue No.	<b>103</b>
LM End	<b>3.88</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.257147°	39.257147°	
			-122.012773°	-122.012773°	
DWR ID	DWR_MA0001_01_s_2019_103				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>4.09</b>	Rating **	M	Issue No.	<b>104</b>
LM End	<b>4.09</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.260000°	39.260000°	
			-122.012868°	-122.012868°	
DWR ID	DWR_MA0001_01_s_2019_104				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The tree limb should be removed from the waterside slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	4.18	Rating **	U	Issue No.	105
LM End	4.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.261201 °	39.261201 °
				-122.012160 °	-122.012160 °
DWR ID	DWR_MA0001_01_s _ 2019_105				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The large fallen tree should be removed from the waterside slope.					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_105\_20190418\_00154.jpg



View of the fallen tree on the waterside slope. Spring 2019.

LM Start	5.77	Rating **	M	Issue No.	35
LM End	5.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.272773 °	39.272773 °
				-122.023290 °	-122.023290 °
DWR ID	DWR_MA0001_01_s _ 2012_35				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	6.24	Rating **	U	Issue No.	657
LM End	6.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.279462 °	39.279462 °
				-122.022461 °	-122.022461 °
DWR ID	16446				

**Comment Code**

**Inspector Comment**

FS\_ID:53049  
DS\_ID:16446  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/1/2018 PVC pipe underneath the slide gate that is located inside CMP riser on WS shoulder was restored and blocks gate from closing. Sediment built up at the bottom of CMP riser. PVC pipe needs to be removed in order to properly close slide gate. (O.Yakimov - DWR)5/3/2017 Pipe leaked during the Jan/Feb 2017 high water event. Sand bags were placed at both the LS and WS outlets as well as down inside the standpipe to slow the water flow. The 5inch pvc was cut away but the slide gate could still not close fully. Suspect sediment build up was in the bottom of the stand pipe was blocking the gate. Inside of pipe should be cleaned out. (DWR Sutter Yard-AFreitag)10/24/2016 Pvc was back running through the crossing and blocking the screwgate. photo attached(DWR Sutter Yard-AFreitag)9/28/2016 Crossing has been downgraded from Urgent to Non-Urgent 5-inch PVC pipe was cut to allow the slide gate to close. Need to contact owner to remove unauthorized pipe to comply with Title 23. (DWR UCIP - omagana)4/25/2016 5 inch pvc pipe running through crossing has been cut out to allow the slide gate to close. (DWR Sutter Yard - afreitag)4/20/2015 5inch pvc is still present blocking slide gate from closing. WS end of pipe has been exposed so there is no way to stop water from flowing through pipe during highwater times. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. There is no way to stop water from flowing through pipe during high water times. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Unauthorized 5 inch PVC pipe running through 36 inch crossing. 5 inch PVC crossing prevents slide gate from closing during high water. Debris and sediment inside riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0258 for 5 inch PVC pipe running through culvert. (DWR UCIP - omagana) FIELD\_STRUCT\_DESC: 36-inch steel (not corrugated metal, as referenced in O&M manual) drainage pipe through the levee, approximately 14-16 feet below levee crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe also visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 331+31)]. FS Date: 10/1/2018 2:59:44 PM

Photo 1 of 3 : UCIP\_SP\_2019\_53049\_78240.jpg



View of levee crown at crossing.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	6.24	Rating **	U	Issue No.	657 (cont)
LM End	6.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.279462 °	39.279462 °
				-122.022461 °	-122.022461 °
DWR ID	16446				

**Comment Code**

**Inspector Comment**

FS\_ID:53049  
DS\_ID:16446  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/1/2018 PVC pipe underneath the slide gate that is located inside CMP riser on WS shoulder was restored and blocks gate from closing. Sediment built up at the bottom of CMP riser. PVC pipe needs to be removed in order to properly close slide gate. (O.Yakimov - DWR)5/3/2017 Pipe leaked during the Jan/Feb 2017 high water event. Sand bags were placed at both the LS and WS outlets as well as down inside the standpipe to slow the water flow. The 5inch pvc was cut away but the slide gate could still not close fully. Suspect sediment build up was in the bottom of the stand pipe was blocking the gate. Inside of pipe should be cleaned out. (DWR Sutter Yard-AFreitag)10/24/2016 Pvc was back running through the crossing and blocking the screwgate. photo attached(DWR Sutter Yard-AFreitag)9/28/2016 Crossing has been downgraded from Urgent to Non-Urgent 5-inch PVC pipe was cut to allow the slide gate to close. Need to contact owner to remove unauthorized pipe to comply with Title 23. (DWR UCIP - omagana)4/25/2016 5 inch pvc pipe running through crossing has been cut out to allow the slide gate to close. (DWR Sutter Yard - afreitag)4/20/2015 5inch pvc is still present blocking slide gate from closing. WS end of pipe has been exposed so there is no way to stop water from flowing through pipe during highwater times. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. There is no way to stop water from flowing through pipe during high water times. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Unauthorized 5 inch PVC pipe running through 36 inch crossing. 5 inch PVC crossing prevents slide gate from closing during high water. Debris and sediment inside riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0258 for 5 inch PVC pipe running through culvert. (DWR UCIP - omagana) FIELD\_STRUCT\_DESC: 36-inch steel (not corrugated metal, as referenced in O&M manual) drainage pipe through the levee, approximately 14-16 feet below levee crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe also visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 331+31)]. FS Date: 10/1/2018 2:59:44 PM

Photo 2 of 3 : UCIP\_SP\_2019\_53049\_78243.jpg



View of CMP riser at WS shoulder.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	6.24	Rating **	U	Issue No.	657 (cont)	
LM End	6.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.279462 °	39.279462 °	
				-122.022461 °	-122.022461 °	
DWR ID	16446					

**Comment Code**

**Inspector Comment**

FS\_ID:53049  
DS\_ID:16446  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/1/2018 PVC pipe underneath the slide gate that is located inside CMP riser on WS shoulder was restored and blocks gate from closing. Sediment built up at the bottom of CMP riser. PVC pipe needs to be removed in order to properly close slide gate. (O.Yakimov - DWR)5/3/2017 Pipe leaked during the Jan/Feb 2017 high water event. Sand bags were placed at both the LS and WS outlets as well as down inside the standpipe to slow the water flow. The 5inch pvc was cut away but the slide gate could still not close fully. Suspect sediment build up was in the bottom of the stand pipe was blocking the gate. Inside of pipe should be cleaned out. (DWR Sutter Yard-AFreitag)10/24/2016 Pvc was back running through the crossing and blocking the screwgate. photo attached(DWR Sutter Yard-AFreitag)9/28/2016 Crossing has been downgraded from Urgent to Non-Urgent 5-inch PVC pipe was cut to allow the slide gate to close. Need to contact owner to remove unauthorized pipe to comply with Title 23. (DWR UCIP - omagana)4/25/2016 5 inch pvc pipe running through crossing has been cut out to allow the slide gate to close. (DWR Sutter Yard - afreitag)4/20/2015 5inch pvc is still present blocking slide gate from closing. WS end of pipe has been exposed so there is no way to stop water from flowing through pipe during highwater times. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. There is no way to stop water from flowing through pipe during high water times. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Unauthorized 5 inch PVC pipe running through 36 inch crossing. 5 inch PVC crossing prevents slide gate from closing during high water. Debris and sediment inside riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0258 for 5 inch PVC pipe running through culvert. (DWR UCIP - omagana) FIELD\_STRUCT\_DESC: 36-inch steel (not corrugated metal, as referenced in O&M manual) drainage pipe through the levee, approximately 14-16 feet below levee crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe also visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 331+31)]. FS Date: 10/1/2018 2:59:44 PM

Photo 3 of 3 : UCIP\_SP\_2019\_53049\_78244.jpg



Pipe at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	6.40	Rating **	M	Issue No.	658
LM End	6.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.281721 °	39.281721 °
				-122.021894 °	-122.021894 °
DWR ID	16425				

**Comment Code**

**Inspector Comment**

FS\_ID:51874  
DS\_ID:16425  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/3/2017 Abandoned- needs to be done properly.  
(DWR Sutter Yard- A Freitag)10/24/2016 Abandoned(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Need to be properly abandoned concrete structure; plate covers concrete box; Concrete headwall damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE\_CESPK\_MA1C\_2010\_p\_0262 for damage to concrete structure (vertical 2 inch wide cracks and spalling visible).  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 72-inch corrugated metal (precast concrete) drainage pipe through the levee at an unknown depth below the crown. Structure is blocked on the waterside (WS) end with 3-foot concrete plug installed in 1980. Slide gate in concrete well on the landside (LS) shoulder. Concrete headwall at both toes. WS headwall not found. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 339+74)].  
FS Date: 5/23/2017 10:13:24 AM

LM Start	<b>6.40</b>	Rating **	M	Issue No.	<b>658 (cont)</b>
LM End	<b>6.40</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2019\_51874\_70181.jpg



View of WS no structure features visible.

Photo 2 of 3 : UCIP\_SP\_2019\_51874\_70180.jpg



Overview of levee crown looking downstream at crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard Maintenance Area 0001**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	6.40	Rating **	M	Issue No.	658 (cont)	
LM End	6.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.281721 °	39.281721 °	
				-122.021894 °	-122.021894 °	
DWR ID	16425					
Comment Code						
Inspector Comment						
FS_ID:51874 DS_ID:16425 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Need to be properly abandoned concrete structure; plate covers concrete box; Concrete headwall damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0262 for damage to concrete structure (vertical 2 inch wide cracks and spalling visible). FIELD_STRUCT_DESC: *ABANDONED* 72-inch corrugated metal (precast concrete) drainage pipe through the levee at an unknown depth below the crown. Structure is blocked on the waterside (WS) end with 3-foot concrete plug installed in 1980. Slide gate in concrete well on the landside (LS) shoulder. Concrete headwall at both toes. WS headwall not found. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 339+74)]. FS Date: 5/23/2017 10:13:24 AM						

Photo 3 of 3 : UCIP\_SP\_2019\_51874\_70179.jpg



View of structure located in LS.

LM Start	6.54	Rating **	M	Issue No.	111
LM End	6.54	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.283684 °	39.283684 °
				-122.021773 °	-122.021773 °
DWR ID	DWR_MA0001_01_s_2019_111				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown should be graded to remove washboard on road surface.					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	7.28	Rating **	C	Issue No.	117
LM End	7.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.294273 °	39.294273 °
				-122.021493 °	-122.021493 °
DWR ID	DWR_MA0001_01_f_2016_117				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	7.36	Rating **	M	Issue No.	112
LM End	7.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.295470 °	39.295470 °
				-122.021606 °	-122.021606 °
DWR ID	DWR_MA0001_01_s_2019_112				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trees smaller than 4 inches in diamater should be removed from the landside toe.					

No Photos

LM Start	7.45	Rating **	C	Issue No.	136
LM End	7.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.296728 °	39.296728 °
				-122.021682 °	-122.021682 °
DWR ID	DWR_MA0001_01_s_2017_136				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	<b>8.64</b>	Rating **	M	Issue No.	<b>24</b>
LM End	<b>8.64</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.307143 °	39.307143 °	
			-122.031456 °	-122.031456 °	
DWR ID	DWR_MA0001_01_s _ 2019_24				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	<b>8.92</b>	Rating **	M	Issue No.	<b>114</b>
LM End	<b>8.92</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.311092 °	39.311092 °	
			-122.030594 °	-122.030594 °	
DWR ID	DWR_MA0001_01_s _ 2019_114				
Comment Code					
PR : Prunings					
Inspector Comment					
The prunings should be removed from the waterside slope.					

No Photos

LM Start	<b>10.13</b>	Rating **	A/W	Issue No.	<b>18</b>
LM End	<b>10.13</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.328697 °	39.328697 °	
			-122.029262 °	-122.029262 °	
DWR ID	DWR_MA0001_01_s _ 2012_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion site.					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_18\_20190327\_00008.jpg



View of the erosion along the waterside of the levee.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	10.32	Rating **	A/W	Issue No.	6
LM End	10.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.331447 °	39.332716 °
				-122.029440 °	-122.029953 °
DWR ID	DWR_ST0003_01_f_2018_1				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 157.7 R					
Status: Eroding					
2017 Field Notes: Vertical face of clay sand bank, new tree popout.					
Bank continues to erode.					
Site History: 2004 - Slowly eroding but near vertical with no vegetation to hold it. 2005 - Erosion is close to levee toe but not into the levee section yet. 2010 - Some new toe scour.					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_6\_20190327\_00003.jpg



USACE 2013 Photo #1

LM Start	11.01	Rating **	M	Issue No.	12	
LM End	11.01	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			39.340774 °		39.340774 °
				-122.032872 °		-122.032872 °
DWR ID	DWR_MA0001_01_s_2012_12					
Comment Code						
V4 : Elderberries are blocking visibility and flood fight capability.						
Inspector Comment						

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	11.01	Rating **	M	Issue No.	69
LM End	11.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.340803 °	39.340803 °
				-122.032868 °	-122.032868 °
DWR ID	DWR_MA0001_01_s _ 2018_69				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_69\_20190327\_00016.jpg



View of the rodent holes along the landside slope.

LM Start	11.51	Rating **	U	Issue No.	116
LM End	11.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.347841 °	39.347841 °
				-122.031342 °	-122.031342 °
DWR ID	DWR_MA0001_01_s _ 2019_116				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The fallen tree should be removed from the waterside slope.					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_116\_20190418\_00155.jpg



View of the fallen tree on the waterside slope. Spring 2019.

LM Start	12.17	Rating **	M	Issue No.	119
LM End	12.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.356934 °	39.356934 °
				-122.027842 °	-122.027842 °
DWR ID	DWR_MA0001_01_s _ 2019_119				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	15.86	Rating **	N	Issue No.	131
LM End	15.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.400875 °	39.400875 °
				-122.009680 °	-122.009680 °
DWR ID	DWR_MA0001_01_f_2016_131				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
About 7 stumps on the landside.					

No Photos

LM Start	16.19	Rating **	M	Issue No.	71
LM End	16.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.405435 °	39.405435 °
				-122.008598 °	-122.008598 °
DWR ID	DWR_MA0001_01_f_2018_71				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_MA0001\_297\_71\_20190327\_00017.jpg



View of the rodent holes along the landside slope.

LM Start	16.35	Rating **	A/W	Issue No.	9
LM End	16.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.407837 °	39.411111 °
				-122.008763 °	-122.009238 °
DWR ID	DWR_ST0010_02_f_2022_7				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 164.3 R					
Status: Eroding					
2017 Field Notes: New erosion along entire site.					
Site History: Erosion site added in 1997 and removed in 2005. 2009 -					
Site added back in, hard toe with slow moving erosion. Potential					
geotechnical failure. 2011 - Site extended downstream.					

Photo 1 of 2 : SP\_2019\_MA0001\_297\_9\_20190327\_00005.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	04/17/2019 04/17/2019	Makar Sokol

LM Start	16.35	Rating **	A/W	Issue No.	9 (cont)	
LM End	16.58	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 USACE Erosion Survey, DRAFT			39.407837 °		39.411111 °
				-122.008763 °		-122.009238 °
DWR ID	DWR_ST0010_02_f_2022_7					
Comment Code						
Inspector Comment						
2017 Site ID: SAC 164.3 R						
Status: Eroding						
2017 Field Notes: New erosion along entire site.						
Site History: Erosion site added in 1997 and removed in 2005. 2009 - Site added back in, hard toe with slow moving erosion. Potential geotechnical failure. 2011 - Site extended downstream.						

Photo 2 of 2 : SP\_2019\_MA0001\_297\_9\_20190327\_00006.jpg



USACE 2013 Photo #2

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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